

**Optical dupl x r****Pat nt Number:** EP0899592**Publication****date:** 1999-03-03**Inventor(s):** MUELLER-FIEDLER ROLAND DR (DE); SCHWANDER THOMAS DR (DE); SPATSCHECK THOMAS (DE); HAUER HEINER (DE); KUKE ALBRECHT DR (DE); MAYER KLAUS-MICHAEL DR (DE); RECH WOLF-HENNING DR (DE)**Applicant(s):** BOSCH GMBH ROBERT (DE)**Requested****Patent:** ☐ EP0899592**Application****Number:** EP19970114880 19970828**Priority Number****(s):** EP19970114880 19970828**IPC****Classification:** G02B6/293; G02B6/42; H04B10/24**EC****Classification:** G02B6/34B6, G02B6/42C6**Equivalents:****Cited patent(s):** DE4407451; EP0325152; EP0395854

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**Abstract**

The duplexer includes a carrier of single crystal silicon (1) with one surface having two anisotropic etched V-grooves. Respective optical fibre waveguides (12,13) are received in the grooves, with the end faces of the V-grooves being provided by a plane parallel plate (15) of the carrier material with a filter layer on at least one side. The rear side of the plate limits a through opening (7) provided in the carrier from both sides using an anisotropic etching process.

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